

Operations

SPECIFIC STATION REQUIREMENTS FOR EL 244

This regulation establishes the procedures for station unique operations and analysis.

Distribution limited to DoD and DoD contractors only; to protect information and technical data which advance the state-of-the-art or describe new technology in an area of significant or potentially significant military application, 2 November 1987. Other requests shall be referred to HQ/DOSB.

1. Operating Concept. Routine operating and maintenance are accomplished during a daily 8-hour period covering approximately 1400 - 2200Z. This 8-hour period of operation is a daily requirement, including holidays and weekends. During the remaining 16-hour period, attendance is required to insure the physical security and fire protection of the facility. Limit operational activities to station equipment checks and maintaining a capability to respond to GSOC data requests or restoration of data transmission to the GSOC. Do not assign tasks requiring the presence of two people during this 16-hour period. The station is authorized to delay their response to the GSOC when compliance requires a second operator to be present on-site.
 2. Station Designator. The station designator for EL 244 is FLFL. Use FLF for the three element entry preceding the station designator on data messages. Mark CEN Form 10s, using the appropriate color, with the first two letters of the station designator.
 3. Timing Standard. Satellite derived time.
 4. Routine Calibrations. Perform SPS and LPS calibrations sequentially using the Central Terminal, commencing immediately after 1700Z. Use an amplitude factor 4 (100mu) for the SPS and an amplitude factor 2 (10U) for the LPS.
 5. EDIT tape registration numbers are 5400 through 5499.
 6. Training outage. Outage authorized in CENR 55-2 is granted for Tuesday of each week from 1600Z through 1900Z.

7. Analysts and Data Reporting Requirements:

- a. The station is exempt from routine analysis and data reporting with the following exceptions:

 - (1) Transmit data reports covering periods required by the GSOC. Include in this report all events extending into, or continuing out of, the requested period.
 - (2) If data period covers more than one ZULU day, use a new computer function data line (BBBBBBB FLF FLFL) (date CMM PART ONE) to precede each day's data. If data are requested over an extended period of time, each data reporting period will cover eight hours (0001-0800Z, 0801-1600Z, 1601-2400Z).

b. In addition to the above requirement, maintain a continuous capability to respond to review requests. Also, establish analysis and reporting exercises to ensure each person's analysis proficiency.

c. In order to effectively evaluate the station's analysis and reporting capability, provide selected analysis time periods to this headquarters for evaluation. Procedures are as follows:

 - (1) Analyze 1600-2000Z on the 15th of each month.
 - (2) Prepare a message, but do not transmit, using correct format as specified in CENR 55-2, Vol 1 and forwarded with the appropriate station log. Do not complete address elements.

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(3) It is not the intent of the program to limit the station's analysis and reporting exercises to one day per month. Analysis and reporting training should be accomplished on a continuing basis and this program should be used to complement that training.

8. SPS Developocorder Presentations:

a. Primary Developocorder:

TRACE	DATA	MAG	ASN CHAN	DISP ID	SCALE	DEV SENS	VOLTAGE
1	SZ2BP36013	200UK	SPDSU1	SPL360	1.0	0.305	
2	SZ2BP06013	200UK	SPDSU2	SPL060	1.0	0.305	
3	SZ2BP12013	200UK	SPDSU3	SPL120	1.0	0.305	
4	SZ2BP18013	200UK	SPDSU4	SPL180	1.0	0.305	
5	SZ2BP24013	200UK	SPDSU5	SPL240	1.0	0.305	
6	SZ2BP30013	200UK	SPDSU6	SPL300	1.0	0.305	
7	SZ2BP00099	200UK	SPDSU7	SPZ000	1.0	0.305	
8	SZ2BP35919	200UK	SPDSU8	SPT359	1.0	0.305	
9	SZ2I01	50UK	SPDSU9	SPRWU1	0.25	1.22	
10	SN2I61H	50UK	SPDSU15	SPKW20	0.25	1.22	
11	SE2I61H	50UK	SPDSU16	SPKW21	0.25	1.22	
12	SZ2I61M	5UK	SPDSU14	SPKW22	1.0	0.244	
13	SZ2I61L	5K#	SPDSU14	SPRW22	1.0	2.44	

Channel jumpered in SDU from equal or higher gain channel.

b. Secondary Developocorder:

TRACE	DATA	MAG	ASN CHAN	DISP ID	SCALE	DEV SENS	VOLTAGE
1	SZ2I18	50UK	SPDS13	SPRW18	0.25	1.22	
2	SZ2I15	50UK	SPDS12	SPKW15	0.25	1.22	
3	SZ2I01	50UK#	SPDS09	SPRW01	0.25	1.22	
4	SZ2I11	50UK+	SPDS10	SPKW11	0.25	1.22	
5	SZ2I13	50UK	SPDS11	SPRW13	0.25	1.22	
6	SZ2BP00099	200UK#	SPDSU7	SPZ000	1.0	0.305	
7	SZ2BP35919	200UK#	SPDSU8	SPT359	1.0	0.305	
8	SZ2I01	25UK#	SPDS09	SPRW01	1.0	2.44	
9	SN2I61H	25UK#	SPDS15	SPRW20	0.25	2.44	
10	SE2I61H	25UK#	SPDS16	SPKW21	0.25	2.44	
11	SZ2I61M	5UK#	SPDS14	SPKW22	0.25	0.244	
12	SN2I61M	5UK#	SPDS15	SPRW20	0.25*	3.05	
13	SE2I61M	5UK#	SPDS16	SPRW21	0.25*	3.05	

Channel jumpered in SDU from equal or higher gain channel.

* Change display scale to 1.0 for developocorder sensitivity checks.

+ Use trace 4 whenever a spare trace is required IAW CENR 55-2 Vol 1.

9. LPS Developocorder Presentation:

TRACE	DATA	MAG	ASN CHAN	DISP ID	SCALE	DEV SENS	VOLTAGE
1	LZ5I61M	10K	LPDSU1	LPSC11	10*	.358	
2	LN5I61M	10K	LPDSU2	LPSC12	10*	.358	
3	LE5I61M	10K	LPDSU3	LPSC13	10*	.358	
4	LZ5I61H	50K	LPDSU4	LPSC11	50*	.358	
5	LN5I61H	50K	LPDSU5	LPSC12	50*	.358	
6	LE5I61H	50K	LPDSU6	LPSC13	50*	.358	
7	LZ5I61L	1K	LPDSU7	LPSC11	1*	.358	

* Set display scale to 1.0 for developocorder sensitivity checks.

10. Channel transmitted to the GSOC:

CHANNEL	DISP ID	SCALE
SPHDU1	SPL360	1.0
SPHDU2	SPL060	1.0
SPHDU3	SPL120	1.0
SPHDU4	SPL180	1.0
SPHDU5	SPL240	1.0
SPHDU6	SPL300	1.0

CHANNEL	DISP ID	SCALE
SPH007	SPZ000	1.0
SPH008*	SIN	1.0
SPH009	SPRW01	1.0
SPH010	SPRW19	1.0
SPH011	SPRW20	1.0
SPH012	SPRW21	1.0
SPH013	SPRW22	1.0
LPH001	LPSC1Z	50.0
LPH002	LPSC1N	50.0
LPH003	LPSC1E	50.0
LPH004	LPSC1Z	1.0
LPH005	LPSC1N	1.0
LPH006	LPSC1E	1.0

* SET CPU 2 test voltage to 0.305 at 1.0 Hz.

11. Data Cross-refernce Lists:

INST	RTID	CHANNEL	CT GAIN	DVS CH	STPR ID	STPR CGAIN	ISENSE MU/CT	DEV IU
U01	SPU1	S01	48	SPRW01	0.80	0.08	SZ2I01	
U02	SPU2	S02	48	SPRW02	0.80	0.08	SZ2I02	
U03	SPU3	S03	48	SPRW03	0.80	0.08	SZ2I03	
U04	SPU4	S04	48	SPRW04	0.80	0.08	SZ2I04	
U05	SPU5	S05	48	SPRW05	0.80	0.08	SZ2I05	
U06	SPU6	S06	48	SPRW06	0.80	0.08	SZ2I06	
U07	SPU7	S07	48	SPRW07	0.80	0.08	SZ2I07	
U08	SPU8	S08	48	SPRW08	0.80	0.08	SZ2I08	
U09	SPU9	S09	48	SPRW09	0.80	0.08	SZ2I09	
U10	SP10	S10	48	SPRW10	0.80	0.08	SZ2I10	
U11	SP11	S11	48	SPRW11	0.80	0.08	SZ2I11	
U12	SP12	S12	48	SPRW12	0.80	0.08	SZ2I12	
U13	SP13	S13	48	SPRW13	0.80	0.08	SZ2I13	
U14	SP14	S14	48	SPRW14	0.80	0.08	SZ2I14	
U15	SP15	S15	48	SPRW15	0.80	0.08	SZ2I15	
U16	SP16	S16	48	SPRW16	0.80	0.08	SZ2I16	
U17	SP17	S17	48	SPRW17	0.80	0.08	SZ2I17	
U18	SP18	S18	48	SPRW18	0.80	0.08	SZ2I18	
KSZ	BB01	S19	48	SPRW19	0.80	0.08	SZ2I61H	
KSN	BB01	S20	48	SPRW20	0.80	0.08	SN2I61H	
KSE	BB01	S21	48	SPRW21	0.80	0.08	SE2I61H	
KSZ	BB01	S22	12	SPRW22	1.00	5.12	SZ2I61M	
KSN	BB01	S23	12			** NUT IN STPR **		
KSE	BB01	S24	12					
LPZ	BB01	L01	--	LPSC11	1.00	0.33	LZ5I61	
LPN	BB01	L01	--	LPSC12	1.00	0.33	LN5I61	
LPE	BB01	L01	--	LPSC13	1.00	0.33	LE5I61	
LPZ	BB01	L02	--	LPSC21	1.00	0.33	LZ5I61	
LPN	BB01	L02	--	LPSC22	1.00	0.33	LN5I61	
LPE	BB01	L02	--	LPSC23	1.00	0.33	LE5I61	.

12. Central Terminal Configuration Parameters:

a. General Site Configuration (Menu Selection 3):

Site ID Number	03
Number of 9600 BPS Lines	1
Number of analog channels	8
Number of 544 Cards	3
Number of SPRTs	18
Number of LPRTs	0
Number of BBRTs	1

b. RT- Specific Configuration (Menu Selection 4):

RTID	RT	PURT	C/V	TIME
	ADUR	ADUR	DELAY	SLOT
SPU1	1***	1	/	1
SPU2	1***	1	/	2
SPU3	1***	1	/	3
SPU4	1***	1	/	4
SPU5	1***	1	/	5
SPU6	1***	5	/	1
SPU7	1***	5	/	2
SPU8	1***	5	/	3
SPU9	1***	5	/	4
SP10	1***	5	/	5
SP11	1***	9	/	1
SP12	1***	9	/	2
SP13	1***	9	/	3
SP14	1***	9	/	4
SP15	1***	10	/	1
SP16	1***	10	/	2
SP17	1***	10	/	3
SP18	1***	10	/	4
BBO1	3***	21	/	1

*** = Specific RT serial number

c. Analog Channel Configuration (Menu Selection 5):

Analog Channel	RTID	GAIN
0		
1		
2		
3		
4		
5		
6		
7		

** All Channels are site selectable **

a. First Message to TUS Contents (Menu Selection 6):

Number of SPRTs in First Message 18
 Number of LPRTs in First Message 0
 Number of BBRTs in First Message 1

e. 12 bit A/D/A Channel Gain Assignments (Menu Selection 7):

CHANNEL	RTID	GAIN
S01	SPU1	48
S02	SPU2	48
S03	SPU3	48
S04	SPU4	48
S05	SPU5	48
S06	SPU6	48
S07	SPU7	48
S08	SPU8	48
S09	SPU9	48
S10	SP10	48
S11	SP11	48
S12	SP12	48
S13	SP13	48
S14	SP14	48
S15	SP15	48
S16	SP16	48
S17	SP17	48
S18	SP18	48
S19	BBO1SZ	48
S20	BBO1SN	48
S21	BBO1SE	48
S22	BBO1SZ	12
S23	BBO1SN	12
S24	BBO1SE	12

f. 16 bit LPDATArts Channel Assignments (Menu Selection 8):

CHANNEL	RTRU
L01	BB01
L02	BB01

g. Hardware Settings:

SP Desired Gain Setting	0.01 #
LP Desired Gain Setting	0.333 ##
Seconds Datachron Set Behind Time	37.001 seconds +/- 0.0005 seconds
Datum TCG Time Setting	Sync to actual time
FTS Receiver Settings	Latitude: Longitude: *FROM ON SITE DOCUMENTS* Elevation: IU Enabled
FTS Filter Factor	
Reasonableness Test	

Set SP desired gain setting to 0.005 upon implementation of Block 1 FDA software.
Set LP desired gain setting to 0.167 upon implementation of Block 1 FDA software.

13. STPK CPU Configuration Parameters:

a. CPU 1:

CONFIGURATION IDENTIFICATION = Cxxxx-1HL
OPERATE1 IDENTIFICATION = OPERATE1
SITE IDENTIFICATION = 244
LP DATA AND INSTRUMENT TYPE (A,31,36) = 36
NUMBER OF SHORT PERIOD ARRAY CHANNELS = 18
NUMBER OF SHORT PERIOD OTHER CHANNELS = 4
NUMBER OF LONG PERIOD ARRAY CHANNELS = 3
NUMBER OF LONG PERIOD OTHER CHANNELS = 3
TYPE OF LP OTHER CHANNELS (A,B) = B
NUMBER OF SHORT PERIOD PROCESSES = 8
NUMBER OF LONG PERIOD PROCESSES = 1
SHORT PERIOD FREQUENCY FILTER LENGTH = 99
LONG PERIOD FREQUENCY FILTER LENGTH = 1
AMOUNT OF SHORT PERIOD TIME DELAY REQUIRED = 0
AMOUNT OF LONG PERIOD TIME DELAY REQUIRED = 0

SP COORDINATES:

0,0,0
1,0.196,0.741
2,1.766,0.680
3,2.034,-0.772
4,0.892,-0.803
5,-0.446,-1.143
6,-0.946,-0.093
7,-1.392,0.834
8,0.321,1.761
9,1.820,3.954
10,2.515,2.317
11,3.479,-0.185
12,4.193,-2.286
13,0.624,-3.490
14,-1.855,-2.934
15,-3.015,-0.710
16,-3.890,1.884
17,-2.248,3.2431
18,-0.036,4.540

LP COORDINATES:

0,0,0
1,0,0,C

SP FREQUENCY FILTER PARAMETERS:

50
0.0006,0.0005,-.0002,-.0012,-.0022,-.0026,-.0024,-.0016,-.0007,-.0004
-.0007,-.0015,-.0022,-.0020,-.0009,0.0010,0.0028,0.0038,0.0036,0.0025
0.0014,0.0014,0.0027,0.0049,0.0067,0.0068,0.0046,0.0008,-.0031,-.0052
-.0046,-.0024,-.0010,-.0029,-.0095,-.0192,-.0280,-.0316,-.0276,-.0188
-.0120,-.0161,-.0354,-.0648,-.0869,-.0777,-.0174,0.0911,0.2099,0.2658
0.2099,0.0911,-.0174,-.0777,-.0869,-.0648,-.0354,-.0161,-.0120,-.0188
-.0276,-.0316,-.0280,-.0192,-.0095,-.0029,-.0010,-.0024,-.0046,-.0052
-.0031,0.0008,0.0046,0.0068,0.0067,0.0049,0.0027,0.0014,0.0014,0.0025

0.0036,0.0038,0.0028,0.0010,-.0009,-.0020,-.0022,-.0015,-.0007,-.0004
-.0007,-.0016,-.0024,-.0026,-.0022,-.0012,-.0002,0.0005,0.0006

LP FREQUENCY FILTER PARAMETERS

0

0.9999

SP BEAM PARAMETERS:

SPL360,0,000,13.0,B

SPL060,0,060,13.0,B

SPL120,0,120,13.0,B

SPL180,0,180,13.0,B

SPL240,0,240,13.0,B

SPL300,0,300,13.0,B

SPZ000,0,0,0,B

SPT359,0,359,19.0,B

LP BEAM PARAMETERS:

LPB362,1,000,3.5,B

SP PROCESSING DELAY = 60

LP PROCESSING DELAY = 1

d. CPU 2:

CONFIGURATION IDENTIFICATION = Cxxxx-2HL

OPERATE2 IDENTIFICATION = OPERATE2

SITE IDENTIFICATION = 244

LP DATA AND INSTRUMENT TYPE (A,31,36) = 36

NUMBER OF SHORT PERIOD ARRAY CHANNELS = 18

NUMBER OF SHORT PERIOD OTHER CHANNELS = 4

NUMBER OF LONG PERIOD ARRAY CHANNELS = 3

NUMBER OF LONG PERIOD OTHER CHANNELS = 3

TYPE OF LP OTHER CHANNELS (A,B) = B

NUMBER OF SHORT PERIOD PROCESSES = 8

NUMBER OF LONG PERIOD PROCESSES = 1

NU SP CHAN TO BE TRANSMITTED VIA HSM = 13

NU LP CHAN TO BE TRANSMITTED VIA HSM = 6

NUMBER OF CONTACT SENSOR MONITORS = 4

NUMBER OF A/D CHANNEL CHANNEL MONITORS = 1

AMOUNT OF SP EDIT TIME DELAY REQUIRED = 0

AMOUNT OF LP EDIT TIME DELAY REQUIRED = 0

SP COORDINATES:

0,0,0

1,0.196,0.741

2,1.766,0.680

3,2.034,-0.772

4,0.892,-0.803

5,-0.446,-1.143

6,-0.946,-0.093

7,-1.392,0.834

8,0.321,1.761

9,1.820,3.954

10,2.515,2.317

11,3.479,-0.185

12,4.193,-2.286

13,0.624,-3.490

14,-1.855,-2.934

15,-3.015,-0.710

16,-3.890,1.884

17,-2.248,3.2431

18,-0.036,4.540

LP COORDINATES:

0,0,0

1,0,0,C

SP CALIBRATION DEFAULT PARAMETERS:

0.833,1.0,10.0,0,170000,0.9,1.1,2.928,8

1.00,1.708

0.5,1.708

0.8,1.708

1.5,1.708

2.0,1.708

2.5,1.708

3.0,1.708

4.0,1.708

LP CALIBRATION DEFAULT PARAMETERS:
0.2539,0.04,10.0,0,173000,0.9,1.1,1.97,7,3
0.04,.2243
0.1,2.243
0.067,.2243
0.05,.2243
0.033,.2243
0.025,.2243
0.020,.2243

SP CHANNEL CONFIGURATION FOR CALIBRATION SYSTEM:

1,1
1,2
1,3
1,4
1,5
1,6
1,7
1,8
1,9
1,10
1,11
1,12
1,13
1,14
1,15
1,16
1,17
1,18
1,24
1,24
1,24
1,24

SP BEAM PARAMETERS:
SPL360,0,000,13.0,B
SPL060,0,060,13.0,B
SPL120,0,120,13.0,B
SPL180,0,180,13.0,B
SPL240,0,240,13.0,B
SPL300,0,300,13.0,B
SPZ000,0,0,0,B
SPT359,0,359,19.0,B

LP BEAM PARAMETERS:
LPB36Z,1,000,3.5,B

CHANNEL CONFIGURATION FOR HIGH SPEED MODEM:

SPL360,SPL060,SPL120,SPL180,SPL240,SPL300,SPZ000,SPRW02,SPRW01,SPRW19,
SPRW20,SPRW21,SPRW22,LPSC1Z,LPSC1N,LPSC1E,LPSC1Z,LPSC1N,LPSC1E

RELAY IDENTIFIERS AND NORMAL STATUS FOR EACH CONTACT SENSOR MONITOR:

LOBATT,1
ACOFF,1
REVXFR,1
LOXTR,1

IDENTIFIERS AND LIMITS FOR EACH A/D CHANNEL MONITOR:

LNPWR,5.4,6.6

OFFICIAL

SUMMARY OF CHANGES

Rewrote in active voice. Added purpose and distribution statements. Deleted specific references to Vol I.